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955 L'Enfant Plaza North, S.W.
Washington, D. C. 20024

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date: February 7, 1972
to: Distribution
from: H. F. Connor
subject: Visibility of Sugarloaf During
Traverses at Descartes -- Case 310

MEMORANDUM FOR FILE

Sugarloaf Mountain, a 8744-meter peak 10 km north of the Descartes landing site, will be a visible checkpoint during EVA I and EVA II but will be obscured from view by Smoky Mountain during a portion of the return leg on EVA III. Its visual proximity to the western slope of Smoky Mountain may be helpful while pursuing the traverse leg north from Palmetto to North Ray crater.

Attachments 1 and 2 show the line at which the peak of Sugarloaf will be obscured by Smoky Mountain. Also shown on these attachments is a line at which Sugarloaf will be visible to 100 meters below the peak, thereby presenting a sufficient view of the summit for good recognition. The traverse to North Ray is seen to be coincident with the latter line for a distance of approximately 2-1/2 km.

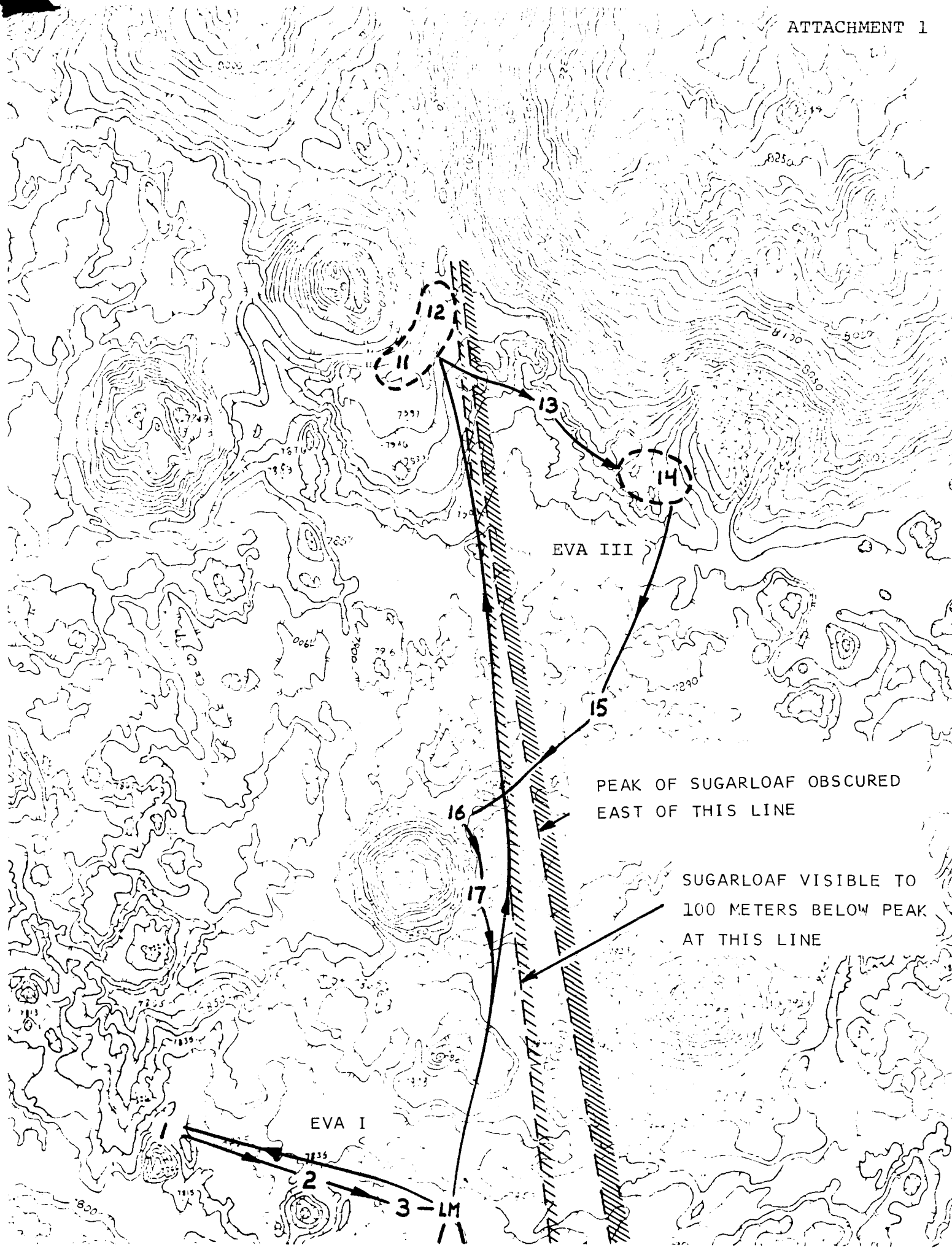
The relative positions of Sugarloaf and Smoky Mountains are shown on Attachment 3, a computerized view which was generated from Station 17 on the east rim of Palmetto. Sugarloaf will shift slightly to the right as the traverse continues up to North Ray, but it should never be completely obscured by Smoky Mountain. Local terrain undulations may occasionally cause both mountains to drop from view but the Descartes revised relief map, dated October 14, 1971, suggests that these dropouts will be infrequent along the currently planned path.

2013-HFC-jab

HFC
H. F. Connor

Attachments

| | | |
|---------------|------------------------------|------------|
| FF No. 602(A) | (ACCESSION NUMBER) | (THRU) |
| | 4 | |
| | (PAGES) | (CODE) |
| | CR 125715 | |
| | (NASA CR OR TM OR AD NUMBER) | (CATEGORY) |
| | | |



EVA III

PEAK OF SUGARLOAF OBSCURED
EAST OF THIS LINE

SUGARLOAF VISIBLE TO
100 METERS BELOW PEAK
AT THIS LINE

EVA I

3 - LM

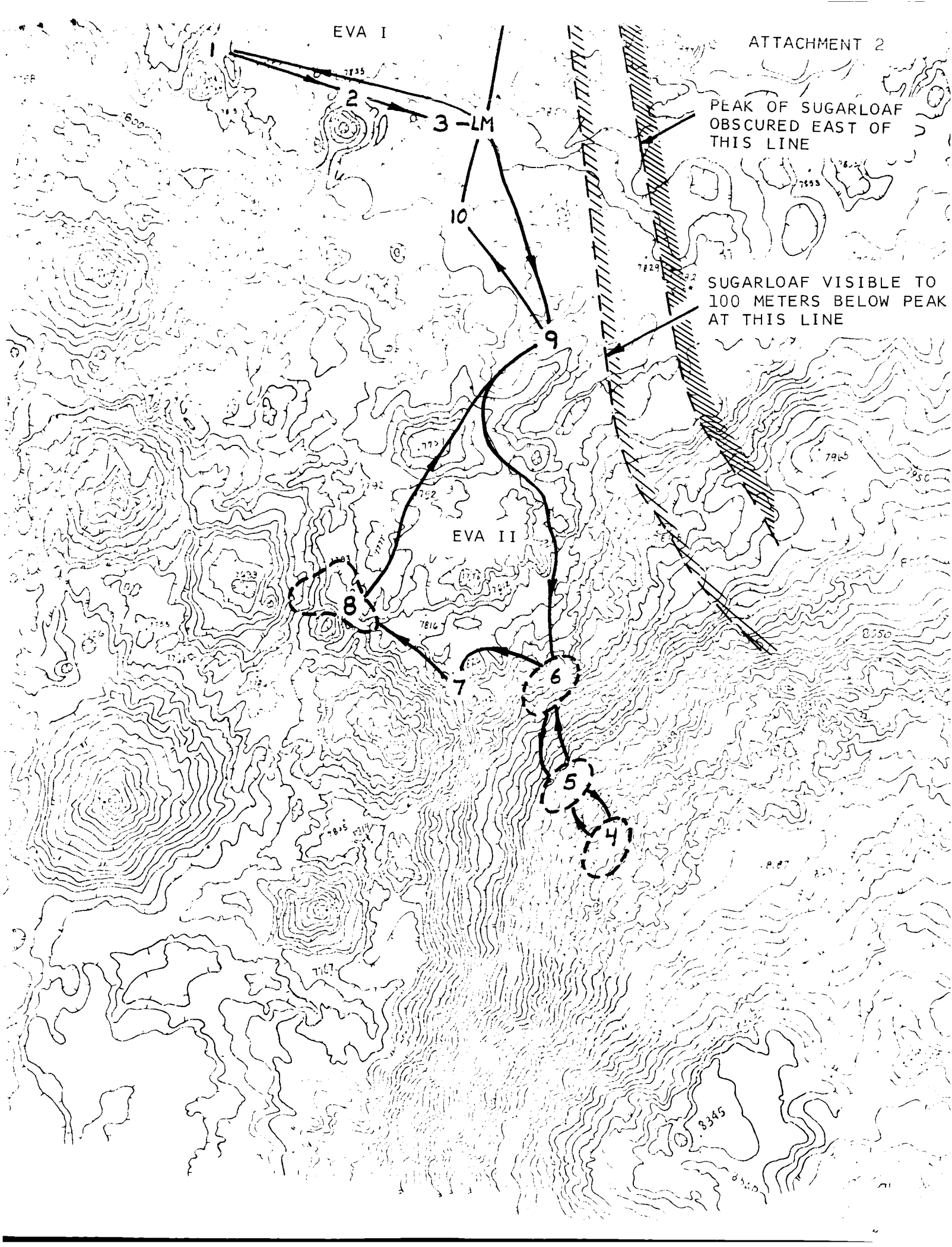
EVA I

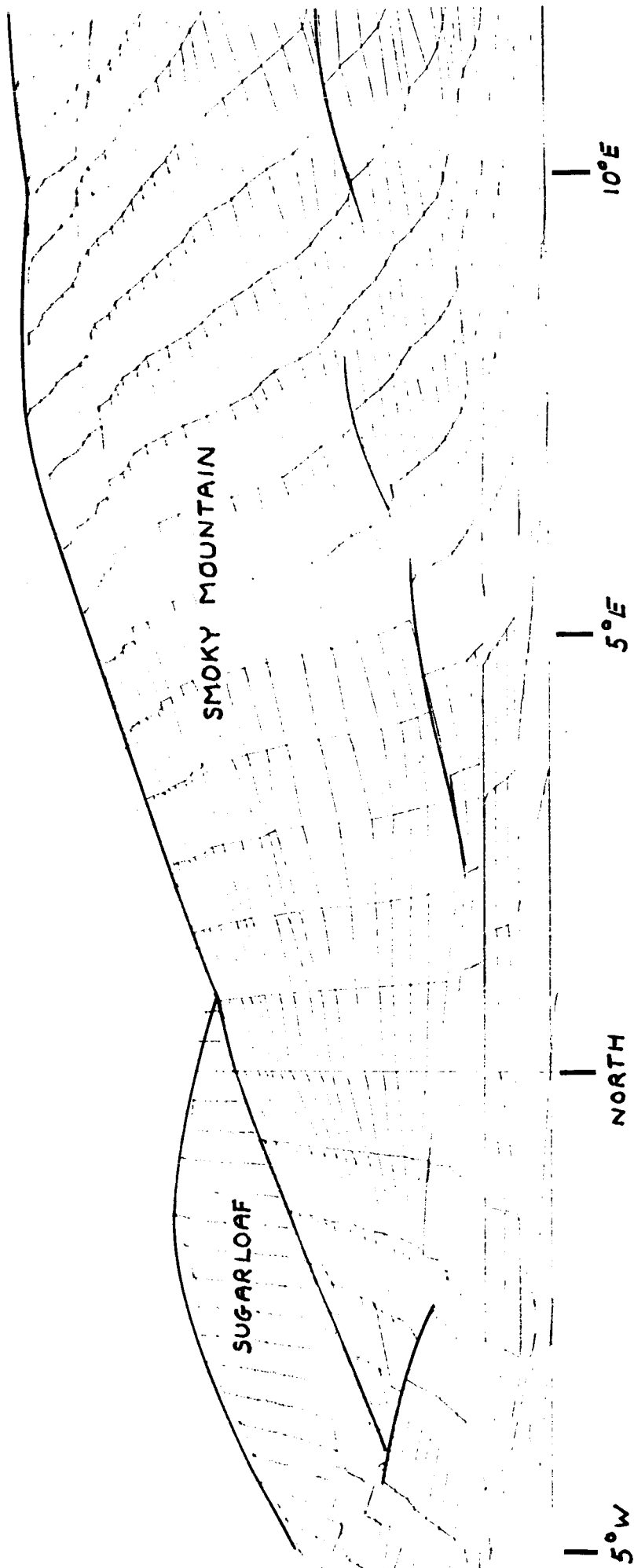
ATTACHMENT 2

PEAK OF SUGARLOAF
OBSCURED EAST OF
THIS LINE

SUGARLOAF VISIBLE TO
100 METERS BELOW PEAK
AT THIS LINE

EVA II





VIEW NORTH FROM STATION 17
(FROM EAST RIM OF PALMETTO)



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